Curriculum Information

Years 10 & 11

St LUKE'S
SCIENCE AND SPORTS COLLEGE
A Church of England (VC) School founded in 1873

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Art **Year: 10/11**

COURSE CONTENT

In year 10 students work on coursework units. In year 11 students spend the first term working on a mock GCSE exam project. In the second term they divide their time between completing and presenting coursework and preparing for the final examination, which takes place at the end of April.

Coursework:
3 units worth 60% selected from the ongoing coursework must show evidence of:

- Drawing and recording from primary sources (first hand observation)
- Recording from secondary sources (good quality photographs and pictures)
- Experiments with media and techniques relevant to the project or theme.
- Critical studies – looking at work of other artists and how this influences the students own work.

Terminal examination:
1 unit, incorporating the above elements, in a controlled setting and timed, worth 40%.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: ASDAN/Vocational Awards Year: 10/11

COURSE CONTENT

The ASDAN programme aims to provide an activity-based, vocational curriculum that emphasises personal and social development.

This programme includes the opportunity to gain a range of qualifications at Level 1 or Entry Level that are recognised by colleges of further education and employers, such as the ASDAN Certificate in Personal Effectiveness which gives students opportunities to develop skills in a range of areas such as Vocational Preparation; The Environment; Health & Fitness; Sport & Leisure; Citizenship and many others. Students will have opportunity to sit on-line tests in Adult Literacy and Numeracy qualifications. Students will also follow a course in one of the following (to be decided in the summer term): AQA's Enterprise & Employability; AQA's Preparation for Working Life; OCR's Career Planning Certificate; and/or ASDAN's Career Planning Certificate

Over the two years the students will have to demonstrate competence in Functional Skills and compile a portfolio as evidence of the challenges/activities they have completed. Most school-based lessons are taught in IT rooms; however, students will often be engaged in activities outside of school. These activities are likely to include visits to places within the local community; for example, a sports centre, a library, a cinema, a nature walk. Students will complete challenges based on these visits and will develop skills such as map reading, writing and completing questionnaires and budgeting. We also have links with the River Dart Country Park near Ashburton. Students will have the opportunity to participate in a couple of days outdoor education course where they will be canoeing, raft-building, orienteering and spending a night under the stars on Dartmoor! These activities are designed to promote self-confidence and team-building skills.

RECOMMENDED BOOK LIST/WEBSITES

No exams or coursework.

Student portfolios will be internally assessed and externally moderated at the end of the 2 year course

HOMEWORK/COURSEWORK REQUIREMENTS

Homework will vary dependent on the module being studied. Tasks often include: research, questionnaires, collecting data, discussions

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: BTEC Health & Social Care Year: 10/11

COURSE CONTENT

The BTEC Health and Social Care course covers six different modules. The modules include.

1. Communication and Individual Rights within the Health and Social Care Sectors
2. Individual Needs within the Health and Social Care Sectors
3. Cultural Diversity in Health and Social Care
4. Anatomy and Physiology for Health and Social Care
5. Human Lifespan Development
6. The Impact of Diet on Health

RECOMMENDED BOOK LIST/WEBSITES

www.bcodp.org.uk British Council of Disabled People
www.careknowledge.com Care Knowledge
www.eoc.org.uk Equal Opportunities Commission
www.doh.org Department of Health
www.eoc.org.uk Equal Opportunities Commission
www.bbcbitesize.co.uk - Anatomy and Physiology
www.bda.uk.com British Dietetic Association
www.food.gov.uk Food Standards Agency
www.nutrition.org.uk British Nutrition Foundation

HOMEWORK/COURSEWORK REQUIREMENTS

Assessment is based on 100% coursework. The coursework is made up of written tasks, practical activities and presentations.
There are between three to five assignments for each unit
There will be regular homework each week which will contribute to assignments.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: BTEC Public Services **Year: 10/11**

COURSE CONTENT

The BTEC Public Service course covers six different modules. The modules include.

1. Uniformed public Services Employment
2. Public Service Skills
3. Uniformed Public Service Fitness
4. Adventurous Activities and Team work for the Public Services
5. The value of Sport and Recreation in Public Services
6. Expedition Skills

RECOMMENDED BOOK LIST/WEBSITES

www.army.mod.uk Army
www.homeofficegov.uk/new_indexs/emerge_serv.htm Emergency services
www.policecouldyou.co.uk Police recruitment
www.homeoffice.gov.uk/crimpol Home office
www.raf.mod.uk/rafhome.html Royal Air Force
www.royal-navy.mod.uk Royal Navy/Royal Marines
www.lond-amb.sthames.nhs.uk London Ambulance Service
www.london-fire.gov.uk London Fire Service
www.fireservice.co.uk Fire service

HOMEWORK/COURSEWORK REQUIREMENTS

Assessment is based on 100% coursework. The coursework is made up of written tasks, practical activities and presentations.
There are between three to five assignments for each unit
There will be regular homework each week which will contribute to assignments.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: BTEC Sport **Year: 10/11**

COURSE CONTENT

The BTEC sport course covers six different modules. The modules include.

1. The Body in Sport
2. Health, Safety and Injury in Sport
3. Planning and Leading Sports Activities
4. Practical Sport
5. Preparation for Sport
6. Work-Based Project in Sport OR Expedition Skills

RECOMMENDED BOOK LIST/WEBSITES

www.bbcbitesize.co.uk - GCSE PE section
BTEC First SPORT (2nd edition) Heinemann

HOMEWORK/COURSEWORK REQUIREMENTS

Assessment is based on 100% coursework. The coursework is made up of written tasks, practical activities and presentations.
There are between three to five assignments for each unit
There will be regular homework each week which will contribute to assignments.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Citizenship **Year: 10/11**

COURSE CONTENT

Lessons include Sex and Relationships lessons, Personal Safety, The Government, and Prejudice and Discrimination.

Areas studied in year 11 include Preparing for exams and planning time. World Peace, Healthy lifestyles, the work of the Crown Prosecution Service, financial awareness, The Electoral System.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: GCSE Dance Year: 10/11

COURSE CONTENT

The GCSE Examination syllabus we are using is AQA GCSE Performing Arts – Contemporary Dance.
In the practical part of the course, students will get the opportunity to study a variety of professional dance works of varying styles (Modern and post modern and contemporary). Using such works as a stimulus they will be required to work both individually and in small groups to choreograph their own dance pieces and perform them both for internal assessment and to a wider audience
During this GCSE course, students will build upon and extend upon their KS3 knowledge. Participation in regular dance and gymnastic lessons and extra curricular activities will undoubtedly give students a distinct advantage when studying as part of this GCSE course.
Unit 1: Critical appreciation of dance. A written paper -1 hour 50 marks (20%)
Students will study a minimum of 2 of the prescribed professional works.
Students will answer a short and concise written paper focussing on critical analysis and perceptive understanding of two professional works. Questions may also refer to the students own performance and choreography
Unit 2: Set Dance. Practical examination. Solo performance- 1-1.5 minutes. 30 marks (20%)
Students will demonstrate their physical competence and effectiveness as performers and their knowledge of safe working practice.
Students will perform one of two solo dances that will be set for the duration of the specification. The dances are choreographed by professional dancers in a contemporary style.
Unit 3: Performance. Controlled assessment in a duo/group dance- 3-3.5 minutes 30 marks (20%)
Students will demonstrate their physical competence and effectiveness as performers and their knowledge of safe working practice. Students will perform in a group dance that relates to a professional work.
Unit 4: Choreography Controlled assessment (40%)
Task 1: solo composition 1-1.5 minutes 20 marks (15%)
Students will demonstrate their increasing effectiveness as a choreographer and their ability to appreciate dance.
Task 2: Choreography for solo or group 2.5-3 minutes 40 marks (25%)
Students will need to demonstrate their increasing effectiveness as a choreographer. The dance can be in any style as long as it fully addresses the exam criteria. Students will also be required to write a brief programme note detailing the idea of the composition.
This is a PERFORMING ARTS course which means the students will be expected to perform in front of others and fully participate in every lesson. There is also a strict uniform which includes a St Luke's GCSE dance top and black plain trousers, it is bare feet only, unless specified by the teacher then it will be dance shoes only. ABSOLUTELY no socks or trainers allowed.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: DT – Electronic Products Year: 10/11

COURSE CONTENT

Students carry out design and making of a practical electronic product to develop existing skills and to learn and apply new techniques and technologies. The principles of digital electronics and logic technology are introduced and developed alongside embedded control. Many students choose to use these processes in their projects. The coursework project is carried out in year 11, a choice of products and themes is given and students research, develop and produce a finished product. The emphasis is on the design and practicality of the product rather than the complexity of the electronics.

Assessment
Progress is assessed in year 10 by a series of set exercises and an exam. In 11 the GCSE coursework is assessed by Coursework 60% and exam 40%.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

In year 11 homework consists of work for the project.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: DT – Food Technology Year: 10

COURSE CONTENT

Design and Technology is a practical subject area which requires the application of knowledge and understanding when developing ideas, planning, producing products and evaluating them.

During year 10 students will develop their skills base. High quality products will be made and different food products investigated.
The following topics will be covered and explored through both practical and theory work.

Carbohydrates – Cakes, pastries, pasta's and other staple foods
Proteins – Meat, fish and meat alternatives. Pluses and dairy proteins
Vegetables and fruits

Students will learn about the function and nutritional properties of ingredients and how to apply their knowledge in an accurate and safe way. Students will learn about industrial practices and study for the Royal Society of Public Health certificate of Food Hygiene.

RECOMMENDED BOOK LIST/WEBSITES

www.design-technology.info
www.dtonline.org
www.rsph.org.uk
Lonsdale Food Technology Revision Guide
GCSE Design and Technology for AQA – Food Technology

HOMEWORK/COURSEWORK REQUIREMENTS

At the start of the course students will be set regular homework relevant to the topics being covered. When the coursework starts students will be required to work on this at home. Students will be required to bring in ingredients on a regular basis throughout the course.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: DT – Food Technology Year: 11

COURSE CONTENT

During the second year of the GCSE course students will learn;

- To understand the functional properties of food.
- To understand the nutritional properties of food.
- The effects of combining different ingredients and the interaction of foods during preparation and cooking.
- The importance of appropriate proportions on the structure, shape and volume of mixtures.
- The effects of acids and alkalis.
- To understand the use of standard components in food processing.
- To demonstrate competence in a range of practical food skills/methods/processes to produce quality outcomes.
- To investigate the design opportunities.
- To identify and use stages in the development of a food product prototype.

Students will also learn about manufacturing constraints and take into account social, economic, cultural and environmental considerations when designing.

Students complete a coursework project and also sit a written exam. The coursework project allows students to use the skills learnt in year 10 to design and make a range of different foods that meet the own specification. The products will then be developed to produce a final design.

RECOMMENDED BOOK LIST/WEBSITES

www.bitesize.co.uk
www.bnf.org.uk
Lonsdale Food Technology Revision Guide
GCSE Design and Technology for AQA – Food Technology
www.dtonline.org
www.bbc.co.uk/schools/gcsebitesize

HOMEWORK/COURSEWORK REQUIREMENTS

At the start of the course students will be set regular homework relevant to the topics being covered. When the coursework starts students will be required to work on this at home. Students will be required to bring in ingredients on a regular basis throughout the course.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: DT - Product Design Year: 10

COURSE CONTENT

During year 10 students will design and make in a variety of materials, using graphic skills to communicate their ideas.
Using the work of professional designers and existing commercial products as starting points students design and make products that cross traditional D & T subject boundaries.
This course encourages innovative approaches to problem solving and promotes team working.
Projects are designed to develop CAD/CAM skills and encourage students to push the boundaries of design.
During the year students will get an overview of the following:

- What is Product Design and product analysis?
- Human Factors and ergonomics
- Green Design /Sustainability/Plastic Bottles –blow moulding
- 3 R's/ Carbon foot print/ product life-cycle
- Packaging –Analysis and production methods
- Logo's and corporate identity/ Photoshop
- Product analysis /Needs of the user
- Materials and their properties -testing
- Sources and sustainability of materials
- Making a product in a batch
- Design ideas– sketching and annotating
- Development through modelling and photography
- Finishing surfaces
- Production Plans
- Industrial Practice /scales production

RECOMMENDED BOOK LIST/WEBSITES

www.howstuffworks.com
www.dtonline.org

HOMEWORK/COURSEWORK REQUIREMENTS

Students will be required to complete homework tasks including research, design activities, product analysis, and extended coursework tasks.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: DT - Product Design Year: 11

COURSE CONTENT

During year 11 students will put together a coursework folder. Evidence of designing can be submitted in a range of formats including A4 or A3 folders, sketchbooks, or electronically. Making can be evidenced
in the form of working or non working prototypes that use a number of different materials.
The GCSE consists of 2 units. A Design and Make task- (which is a design portfolio and a commercial product prototype) –this is 60 % of the final grade. And a written paper which is 40 % of the final grade

The portfolio of work will include:
- Design Brief cover page
- Analysis of the task
- Mood Board
- Analysis of existing products
- Analysis of existing product packaging
- Disassembly of products
- Human factors
- Initial Design ideas 3 A3 sheets
- Final Design idea

RECOMMENDED BOOK LIST/WEBSITES

AQA GCSE Design and Technology: Product Design
GCSE Lonsdale AQA Product Design Revision Guide

HOMEWORK/COURSEWORK REQUIREMENTS

Homework is set in line with the College Extended Studies Policy

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: DT – Resistant Materials Year: 10

COURSE CONTENT

During year 10 students work on a number of design and make projects preparing them for the coursework and developing their making skills in wood metal and plastic.
The projects are:

- Clocks.
- Wooden boomerangs.
- Metal zip tags.
- Children's Toys in a range of materials.

These projects allow students to explore markets, users, industrial practices and appropriate finishes.

Students will be using the department's ICT facilities to utilise Computer Aided Drawing and Manufacture to create high quality products that meet identified needs.

Early work is designed to develop skills with tools and processes and to familiarise students with a GSCE portfolio. We then increase the complexity of the products. This allows Yr 11 students to independently design and make a high quality product and final GCSE portfolio.

RECOMMENDED BOOK LIST/WEBSITES

www.bbc.co.uk/schools/gcserevision/bitesize
www.dtonline.org
www.technologystudent.com
GCSE Design and Technology for AQA: Resistant Materials
Lonsdale GCSE Revision Resistant Materials

HOMEWORK/COURSEWORK REQUIREMENTS

Homework is set weekly.
It ranges from research, to recording making and also includes planning work for the next lesson.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: DT – Resistant Materials Year: 11

COURSE CONTENT

During this year students will design & make a final piece for GCSE assessment.

The product will vary from student to student and specific information is given to the individual in order to ensure that they achieve their target.

A 20 page booklet is given to each student as the GCSE coursework is started.

The exam focus is unknown until late March. Advice will be given to students once the exam board allows.

RECOMMENDED BOOK LIST/WEBSITES

As appropriate to the product chosen by the individual student. Please ask for individual advice as the possible range prohibits listing resources appropriate to all.

HOMEWORK/COURSEWORK REQUIREMENTS

Homework is set in accordance with the College Extended Studies Policy.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: DT - Textiles **Year: 10**

COURSE CONTENT

Students will be designing and making a textiles product in an industrial context. During year 10 they will learn the basics of pattern drafting, fabric embellishment, fabric properties and fashion design. They design textiles products for a shop or tourist attraction, as well as individual customers and markets. They will also make an educational product which adheres to strict quality control and health and safety standards.

RECOMMENDED BOOK LIST/WEBSITES

GCSE Design and Technology for AQA Textiles Technology Published by Heineman

Lonsdale School Revision Guides The essentials of GCSE Design and Technology Textiles Technology

HOMEWORK/COURSEWORK REQUIREMENTS

One hour per week.
This will include research, development and the design element of the coursework

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: DT - Textiles **Year: 11**

COURSE CONTENT

In year eleven students conduct an extended INDIVIDUAL project to completely develop a textiles product for an adult, child or interior.

Development includes market research, data analysis, pattern development, mock-ups, testing, health and safety and quality control in manufacturing. Students will do a lot of practical work and they will be expected to provide materials and components for their final products.

RECOMMENDED BOOK LIST/WEBSITES

GCSE Design and Technology for AQA Textiles Technology Published by Heineman

Lonsdale School Revision Guides The essentials of GCSE Design and Technology Textiles Technology

HOMEWORK/COURSEWORK REQUIREMENTS

One hour per week.
This will include research, development and the design and research element of the coursework

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Drama **Year: 10/11**

COURSE CONTENT

Students do two units of coursework based on six contrasting scripts and compile a portfolio of work. Choosing and using drama genres, styles and conventions, planning, performance and evaluation are the key assessment objectives.

Students will do two more units of coursework using improvisation based on a given stimulus. They also complete their final Practical Performance within a ten hour realisation test.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: English & English Literature Year: 10

COURSE CONTENT

Year 10 is spent completing GCSE coursework. Students being entered for both Language and Literature must have 5 pieces:

Shakespeare – Romeo and Juliet
Students read act one of the play and watch the Baz Luhrmann film and are then asked to write an essay.

Novel – 'A Christmas Carol' (most groups) 'Jekyll and Hyde' (some groups)
Students read the first chapters of the novel and analyse how characters and atmosphere are created.

Original writing – students produce a piece of their own writing; short story, description, diary entries etc.

Media – students produce a charity letter and evaluate the persuasive techniques used, or they produce two film reviews written for a specific audience.

Play (Literature only) – 'Blood Brothers' by Willy Russell or 'An Inspector Calls' by J.B Priestley: students read one of these plays and then produce an essay evaluating the dramatic techniques used.

FAST-TRACK

Year 10 students selected for fast-track also study GCSE Media Studies and begin completing coursework tasks this year.

GCSE English is taken in year 10 by those students studying fast-track.

RECOMMENDED BOOK LIST/WEBSITES

www.bbc.co.uk/bitesize
www.sparknotes.com

'Dr Jekyll and Mr Hyde' by Robert Louis Stevenson
'A Christmas Carol' by Charles Dickens
'Blood Brothers' by Willy Russell
'An Inspector Calls' by J.B Priestley

There are also several study guides available for these texts.

HOMEWORK/COURSEWORK REQUIREMENTS

www.bbc.co.uk/bitesize
www.sparknotes.com

'Dr Jekyll and Mr Hyde' by Robert Louis Stevenson
'A Christmas Carol' by Charles Dickens
'Blood Brothers' by Willy Russell
'An Inspector Calls' by J.B Priestley

There are also several study guides available for these texts.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: English & English Literature Year: 11

COURSE CONTENT

GCSE English:

English paper 1

Students spend time developing their response to non fiction texts (magazine articles, leaflets, web pages, newspapers) in preparation for this exam. They are asked to evaluate techniques used by writers to appeal to target audience and to compare texts. They are also expected to write for a range of different purposes.

English paper 2

Students study a selection of poems from different cultures from the AQA anthology. In their exam they are expected to compare 2 poems.

GCSE English Literature:

Most students study '**Of Mice and Men' by John Steinbeck**, although some groups read **'Heroes' by Robert Cormier.**

For English Literature, they study poems by Simon Armitage and Carol Ann Duffy, as well as poems written before 1914. In their exam they are expected to compare 4 poems.

RECOMMENDED BOOK LIST/WEBSITES

Websites:

www.bbc.co.uk/bitesize

There are several study guides for the texts we read with students on sale in book shops. These explore key characters, themes and features of language used.

HOMEWORK/COURSEWORK REQUIREMENTS

Students will be set a minimum of one piece of homework per week. Tasks include questions from past papers, revision activities and independent writing tasks.

The final deadline for GCSE coursework is the February half term (coursework tasks should have been completed by the end of year 10).

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Geography **Year: 10/11**

COURSE CONTENT

In year 10 we look at tectonic activity through our 'Hell or High Water' module about the power of the Earth's crust. We then move on to look at how industry affects national and international geography and finally we look at glaciations and discover how ice has shaped our world.

In year 11 we compare the coastal erosion of vulnerable coastlines across Devon. We go to Start Bay and collect evidence which becomes part of a vital piece of GCSE coursework. We also look at the impact that humans have on the Earth and at Managing Resources before the final exam.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: History **Year: 10**

COURSE CONTENT

History at St Luke's will ignite student's curiosity and imagination, moving and inspiring them to find out about the past. Students will develop their own present identities by exploring their personal and local history as well as studying past events at national and international level. By engaging with their past students will be able to ask and answer questions linked with the present day.

The first year of key stage 4 is spent studying the topics:

Britain 1906 – 1918

- Covering liberal reforms; women and the vote; and Britain during WW1

International Relations

- Covering Treaty of Versailles; League of Nations; The causes of WW2

America Boom to Bust to Recovery (1919 - 1941).

- Covering for coursework assignments: Prohibition and the New Deal

RECOMMENDED BOOK LIST/WEBSITES

Britain 1906-18 for OCR GCSE – Richard Radway (Publisher: Hodder & Stoughton)
International Relations 1919 – 1939 – Keith Shephard (Publisher: Blackwell)
The USA Between the Wars 1919 – 1941 – Schools History Project (Publisher: Hodder Murray)

HOMEWORK/COURSEWORK REQUIREMENTS

Will be set on a weekly basis and will be relevant to the topic studies in class.

Summer Term – homework will be preparation and completion for students coursework.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: History **Year: 11**

COURSE CONTENT

History at St Luke's will ignite student's curiosity and imagination, moving and inspiring them to find out about the past. Students will develop their own present identities by exploring their personal and local history as well as studying past events at national and international level. By engaging with their past students will be able to ask and answer questions linked with the present day.

In their final year students look at Weimar and Nazi Germany (1919 - 1945) and The Cold War (1945 - 1989) whilst preparing for their final exam.

RECOMMENDED BOOK LIST/WEBSITES

Germany 1918 – 1949 – Schools History Project (Publisher: Hodder Murray)
Weimar Germany – Josh Brooman (Publisher: Longman)
Hitler's Germany – Josh Brooman (Publisher: Longman)
Revision Guide for OCR Modern World History (Publisher: Heinemann)

HOMEWORK/COURSEWORK REQUIREMENTS

Completion of coursework by October half term.

Homework set weekly.

Revision sessions to attend from January – students will be advised when these begin.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: ICT **Year: 10/11**

COURSE CONTENT

In year 10 students follow a course designed to develop their ICT skills further with an additional aim of seeing how ICT could be used in coursework tasks for other subjects. This is also an interactive, task based course delivered from an Internet based VLE. It also includes using a wide range of free software.

In year 11 students follow a course designed to develop their ICT skills further with an additional aim of seeing how ICT could be used in coursework tasks for other subjects. This is also an interactive, task based course delivered from an Internet based VLE. It also includes the opportunity to choose from a wide range of software.

This course will soon be superseded by a new one studying Functional ICT.

RECOMMENDED BOOK LIST/WEBSITES

The main web site used is:

www.learnmoreict.com

HOMEWORK/COURSEWORK REQUIREMENTS

Homework is included in this VLE based course and is usually completing work set. The ICT department also regularly run homework and coursework booster sessions for students who might feel they need extra help. The classes take place either at lunch time or after school, and their aim is to support the student and offer advice to enable them to produce their personal best as well as giving further access to the college ICT equipment and software. The ICT rooms are open most break and lunchtimes. Each room is supervised by a member of the ICT Department and offers the students an opportunity to complete homework and research for any subject, or at break time just explore further an interest in ICT.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Learn 2 Work Year: 10/11

COURSE CONTENT

Students who have been guided onto this option pathway will be given a separate prospectus, but listed below is a summary of **some** of the activities they will be able to access through this programme.

Entry Level Certificate in Skills for Working Life (Hair & Beauty) At: hair @ the academy
Accreditation: Edexcel Entry Level BTEC Certificate in Skills for Working Life (Hair and Beauty

An introduction to Landbased Industries At: Bicton College
Accreditation(s):…Skills for Working Life Entry 2 or 3

Hospitality and Catering At: Exeter Deaf Academy in Partnership with Exeter College
Accreditation(s): Edexcel Entry Level BTEC Certificate in Skills for Working Life (Hospitality and Catering)

Introductory Certificate in Basic Construction Skills (6217.01) At: Falcon House, Sowton

City and Guilds Level 1 Introductory Certificate in Construction Skills At: PGL Training Centre, Clyst Works, Clyst Road, Topsham, Exeter,Devon EX3 0DB
Accreditation(s): City and Guilds Level 1 Introductory Certificate in Construction Skills

Entry Level Certificate in Motor Vehicle and Road User Studies
At: Marsh Barton Centre

One Life At: 100 Club primarily, potential for any youth club venue around City
Accreditation(s): (Dependant on group dynamic): Devon Award, Youth Challenge Certificate, Bronze Youth Achievement Award,Sports Leaders Award, Red Cross First Aid, Red Cross Looking After other Peoples Children, Peerlink Conflict Management

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Maths **Year: 10/11**

COURSE CONTENT

Mathematics is split up into four main subject areas – Number, Algebra, Shape and Space, and Handling Data.

We aim to deliver all areas at some level, dependant on the ability of the class. In year 10, we set by ability, using each students' progression from Key Stage 3 as an indicator. We have some single sex groupings and some mixed.

We follow the Edexcel linear course at GCSE, as well as the Edexcel Entry Level Course for those students where GCSE Maths is unsuitable. The GCSE course is 100% exam based with no coursework. There are two GCSE tiers, Higher (Grades A* to D) and Foundation (Grades C to G). The Entry Level course consists of an oral test, a practical task and a test that they sit during normal class time. Students can achieve an Entry Level at levels 1, 2 or 3.

We assess each group regularly through assessment tasks and half termly formal tests. We also set regular homework to ensure understanding of each topic and to consolidate the work we do in class.

RECOMMENDED BOOK LIST/WEBSITES

We use Edexcel GCSE books by Heinemann.
We also recommend purchasing revision guides. We use CGP Edexcel revision books and workbooks. Students can purchase these from us at a fraction of the cost that shops charge.
There is also GCSE Bitesize and www.gcsemathspastpapers.com, which contains exam questions on the topics that occur most often in the exam.

We also have a programme called MathsWatch, which gives the students mini lessons on every topic that will appear in their GCSE. This is on every computer in school and will soon be on the schools VLE on the website.

HOMEWORK/COURSEWORK REQUIREMENTS

There is no Maths coursework, but homework is set regularly.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: GCSE Media Studies **Year: 10**

COURSE CONTENT

Year 10 is spent completing GCSE coursework. Students need to complete 3 written assignments and 1 practical production.

The written assignments should be approximately 800 words long and each will focus on a different area of media. For example, film, animation, or magazines. Students will be expected to analyse media texts and produce their own for each assignment.

The practical production asks students to research existing media texts (for example teenage magazines) and then to work in a group to produce a new one! They need to assign roles and take ultimate responsibility for the production of a section of the product. They are then expected to produce a supporting account – an evaluation of how well they feel they have achieved the aim of their product.

RECOMMENDED BOOK LIST/WEBSITES

www.filmedu.co.uk

HOMEWORK/COURSEWORK REQUIREMENTS

Homework set will be tasks that prepare students for their coursework, or tasks that consolidate their learning.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: GCSE Media Studies **Year: 11**

COURSE CONTENT

Year 11 is spent completing GCSE practical production and then students will spend time preparing for the GCSE exam. The exam topic for 2009 is TV Quiz shows and for 2010 is Popular Press. Students will be given the exam paper two weeks before the exam in order to prepare their responses.

The exam asks students to demonstrate their knowledge of the media texts studied and how they have changed over time. They are then asked to design a new media text (for example, a brand new quiz show aimed at teenagers.)

RECOMMENDED BOOK LIST/WEBSITES

www.filmedu.co.uk

HOMEWORK/COURSEWORK REQUIREMENTS

Homework set will be tasks that prepare students for their coursework, or tasks that consolidate their learning.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: MFL **Year: 10**

COURSE CONTENT

French Spanish Italian

French, Spanish and Italian are offered to GCSE. This year we are also offering applied Spanish and Italian. The Applied language courses follow the Edexel specification and concentrates more on leisure and tourism as the base of its programme of study and many of the examinations are taken on line. The other language courses follow the AQA syllabus. Each course is assessed in four skill areas: Listening, Speaking, Reading and Writing. Each skill constitutes 25% of the marks at GCSE and students may be entered for either the Foundation or Higher tier in each of the four skills. There is a speaking examination which takes place in the first week of May of the GCSE year and is administered at school. The writing component consists of three pieces of coursework over the two year course. The first piece is generally completed in the last term of Year 10 and the remaining two pieces before the February of Year 11. All coursework is assessed by the class teacher and moderated by the examination board. One piece of coursework must be completed under controlled conditions and is done as part of the year 11 mock examination. We aim to organise a study trip during the course of study for all our language classes.

Term 1 - Self, family and friends ; Daily Routine; Home and local environment; Interests and hobbies; Leisure

Term 2 - Home Life; Healthy Living; Shopping; Exam Practice; End of Year Examination

Term 3 – "Education and Future Career"-- **Coursework Assignment 1**; Part-Time Jobs; Work Experience

RECOMMENDED BOOK LIST/WEBSITES

A bilingual dictionary is a prerequisite for these courses and students should ensure they have one at home in order to do their homework and coursework competently.

Applicable for each language studied:

GCSE Bitesize/www.linguascope.com and/or purchase a study guide with CD study guide

HOMEWORK/COURSEWORK REQUIREMENTS

Homework is given once per week. It constitutes a meaningful and valid part of the programme of study. It is generally a written piece of work, such as a practice examination paper or a reading comprehension and will take at least an hour to complete. The homework may also be an on-going coursework assignment.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: MFL **Year: 11**

COURSE CONTENT

French Spanish Italian

Our students are entered for the AQA or in the case of an applied language, the Edexcel examination in the language they have opted for. There are two tiers of entry-Foundation and Higher- and students are entered at one or the other in the Speaking, Reading and Listening examination. The Applied course allows entry at Foundation level (GCSE grades C-G) or at Higher level (grades A*-E) but in the case of the standard GCSE with AQA, the system allows flexibility to be entered at one or the other level in each examination component. For example a student may be entered for Higher Reading, Higher Speaking but elects to be entered for Foundation Listening. The speaking examination is administered in school and examined by the class teacher according to AQA regulations and occurs during the first week of May every year. The tests are recorded and sent away to be assessed. The reading and listening examinations take place in the school hall and their timings will appear on each student's examination timetable, however, the speaking test **will not appear on the student exam timetable as they are administered internally**. Students will be given verbal and written notice of the place and time of their speaking test and speaking test timetables will be clearly posted on the Modern Language notice board. A Foreign Language Assistant for French and Spanish comes in once or twice a week to help with speaking practice.

Term 1 - Travel and Transport - **Coursework Assignment 2**; Finding the Way; Mock Examination

Term 2 – Tourism; Accommodation; **Holiday Activities - Coursework Assignment 3**

Term 3 – Services; Complaints - Speaking Test Practice; Revision and Practice Papers

RECOMMENDED BOOK LIST/WEBSITES

French: ISBN 9781841463735 CGP Complete GCSE French Revison Guide with CD for speaking and listening practice.

ISBN: 978 1 84146 802 0 CGP Revision Guide French (no CD)

GCSE Bitesize GCSE French

Spanish: GCSE Bitesize Spanish Interactive Revision Tutor (Bitesize GCSE) (Paperback)

by Niobe O'Connor

CGP Revision Guide Spanish with CD for Speaking and listening practice. **Level:** All **Format:** Full Colour **ISBN:** 978 1 84146 388 9

HOMEWORK/COURSEWORK REQUIREMENTS

In addition to the above programme of study, students are expected to produce six written pieces of work based upon their unit of study for as a written revision aid and as preparation for the speaking examination. These all should be completed and handed in by the end of February of the GCSE year, although they are done throughout the course. The pieces are:

1. All about me and my family; 2. School and future career plans; 3. All about my town and region; 4. My favourite pastimes; 5.My house and the area where I live; 6. My holidays-past, present and future

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Music **Year: 10**

COURSE CONTENT

Students who choose GCSE music follow the AQA examination board syllabus securing superb results.

Initially harmonic and melodic composition is taught in detail using both keyboard and sequencing as tools for building practical understanding.

Building up a musical dictionary of terms and details is a regular topic set for homework and progress is individually assessed creating graphs showing personal potential.

Work begins on a first composition and also the study of the five areas of study.

Regular sessions of musical theory are taught following a coursework book.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

Homework is regularly set, marked and assessed.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Music **Year: 11**

COURSE CONTENT

Students finish their first composition and also compose AQA's integrated assignment piece.

Each student also prepares and performs a solo piece on any chosen instrument.

Each student takes part in the preparation and performance of an ensemble piece.

The five areas of study (film, dance, orchestral, special occasion and pop 60's+) are completed.

Past papers are taught and experienced in preparation for the final listening examination paper.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

Before Easter Break: All music performance coursework due.

1 May 2009 - Integrated Assignment due.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: PE - Core **Year: 10/11**

COURSE CONTENT

Students study 2 lessons of PE every week.

In their 'core' lesson they are able to select areas of study in which they would like to develop and extend their expertise. All students regardless of gender or ability have equal access to all activities.
Students may choose to participate as a player/performer/ coach or leader.
In year 11, students may choose to participate in a new activity or consolidate and extend their knowledge in areas already followed in year 10.
The areas of study currently include:

- Outwitting opponents in a variety of games. A demanding performance based module for students wishing to achieve a high level of personal performance in team and individual activities.
- Leisure Activities. Students participate in a variety of activities that might be available in our local sports centres. Students are involved in setting up equipment and running their own activities.
- Dance. Students study and choreograph a variety of dances whilst learning new dance techniques and styles.
- Fitness. Students design and undertake a personal exercise programme to improve their own fitness levels. They learn about the benefits of regular exercise and its importance to a healthy lifestyle.

All students continue to be graded on the modules they choose together with their extra curricular sports over the two year course. Grades are then entered for the OCR Exam board's Entry Level Physical Education Award. This exam is based on practical performance and all students will be entered.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

Students are encouraged to join extra curricular sporting clubs in both school and out of school contexts. Involvement in physical activities will improve fitness and levels of performance.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: PE GCSE **Year: 10**

COURSE CONTENT

Unit 1

The Theory of Physical Education

Section 1. Healthy, active lifestyles

- Healthy, active lifestyles and how they could benefit you
- Influences on your healthy, active lifestyle
- Exercise and fitness as part of your healthy, active lifestyle
- Physical activity as part of your healthy, active lifestyle
- Your personal health and wellbeing

Practical

Students will participate in a variety of sports and activities leading to an assessed performance in each area. Students may choose to perform as a player/performer, official or leader.
In addition, students are encouraged to take part in a variety of clubs out of school where they may be assessed in accordance to the exam specification.

RECOMMENDED BOOK LIST/WEBSITES

GCSE PE . The Revision guide.
Check the PE dept folder on the R drive.
Google search engine
www.bbc.co.uk/schools/gcsebitesize
www.arrowvale.worcs.sch.uk/sportscollege/pe
www.ask.com
www.sportwise.tv

HOMEWORK/COURSEWORK REQUIREMENTS

Theory consolidation homework every week to reinforce written work from classroom lessons.

6 week Personal exercise Programme commitment completed in lessons and written up as homework.

Attendance at one or more extra curricular PE clubs to extend and reinforce personal performance levels. Students may choose to perform as a player/performer, official or leader.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: PE GCSE **Year: 11**

COURSE CONTENT

Unit 1 The Theory of Physical Education

Section 2. Your healthy, active body

- A healthy, active lifestyle and your cardiovascular system
- A healthy, active lifestyle and your respiratory system
- A healthy, active lifestyle and your muscular system
- A healthy, active lifestyle and your skeletal system
- Physical activity and your healthy mind and body

Analysis of Performance

Students will complete an analysis of performance in a sporting activity of their choice. They will practice the skills involved in observing and commenting on sporting performance before an oral exam with a member of the PE staff.

Practical

Students will participate in a variety of sports and activities leading to an assessed performance in each area. Students may choose to perform as a player/performer, official or leader.
In addition, students are encouraged to take part in a variety of clubs out of school where they may be assessed in accordance to the exam specification

RECOMMENDED BOOK LIST/WEBSITES

Gcse PE . The Revision guide.
Check the PE dept folder on the R drive.
Google search engine
www.bbc.co.uk/schools/gcsebitesize
www.arrowvale.worcs.sch.uk/sportscollege/pe
www.ask.com
www.sportwise.tv

HOMEWORK/COURSEWORK REQUIREMENTS

Theory consolidation homework every week to reinforce written work from classroom lessons.

6 week Personal exercise Programme commitment completed in lessons and written up as homework.

Attendance at one or more extra curricular PE clubs to extend and reinforce personal performance levels. Students may choose to perform as a player/performer, official or leader.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: PE - Pathways **Year: 10/11**

COURSE CONTENT

Students study 2 lessons of PE every week

For their pathways PE lesson, students will carry on studying their vocational course. Each one leads to a Nationally recognized qualification.

- **Sports Leaders Award**. A comprehensive leaders programme which includes a First aid qualification and study sessions to teach students to become good leaders.

Students learn how to lead warm ups and run skills sessions in a variety of activities where organizational skills are important.
All students are expected to complete a minimum of 20 hours volunteering services for the school. They may complete their hours at extra curricular clubs, with our feeder primary schools or in an out of school sporting activity.

- **Asdan Sports and Fitness Award**. This course covers a variety of sporting activities both as an individual and as part of a team. Practical involvement is very important together with an ability to solve problems and enhance personal skills.The study of fitness and its value to a healthy lifestyle is the cornerstone to this award Students will also gain a first aid qualification.

It is our aim for every student to improve their own personal performance levels whilst following pathways of their choice.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

Students are encouraged to join extra curricular sporting clubs in both school and out of school contexts. Involvement in physical activities will improve fitness and levels of performance.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Psychology **Year: 10/11**

COURSE CONTENT

Psychology is the study of the mind. How does our brain actually work? How do we learn and why do we remember some things but not others? How do we form opinions about others and which things affect the way we think and behave without us even realising? How can we tell when people are attracted to others and how does our mind control our emotions? Psychology examines all of these questions and much more. Students have the opportunity to choose an area of particular interest and carry out their own experiment/investigation.

This course is split into five sections. The fifth is a practical investigation that is written up as coursework. These are:

Cognitive Psychology - Perception, Learning and Memory
Social Psychology - Forming impressions of other people, Prejudice and discrimination and Social influence.
Developmental Psychology - Attachment and separation, Cognitive development and Sex and gender.
Behavioural Psychology - The development of moral behaviour, Pro-social behaviour and Anti-social behaviour.
Research Methods - Methods of investigation, Methods of control and Ethical considerations.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Religious Education Year: 10

COURSE CONTENT

The GCSE continues from year 9 and students finish the remaining sections (Marriage and the family and community cohesion) before revising for the first exam at the end of year 10.

Students are required to base their studies on Christianity and Islam.
Key words are given at the beginning of each unit and students are expected to learn these for a short vocabulary test.
Students also need to be aware of the non-religious as well as religious responses to the issues covered.

After the exam we begin studying the second unit for the full course, 'Religion and Society'. We begin with the section on crime and punishment.

RECOMMENDED BOOK LIST/WEBSITES

We use: 'Religion and Life' by V.W. Watton and the accompanying revision book.
We have copies of these books to use when needed in class activities.

HOMEWORK/COURSEWORK REQUIREMENTS

Students will take the first exam paper in May/June in year 10. It is a one and a half hour assessment. The paper is divided into 4 sections and students will be expected to choose one of the two questions set on each section, i.e. 4 questions in total. Each question is subdivided into 4 parts structured on an incline of difficulty.
The skills required to answer each section of the questions will be taught throughout the course and was introduced to the students during year 8.
Exam entry is not tiered.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Religious Education Year: 11

COURSE CONTENT

We study the Edexcel Religion and Society course in year 11. The course requires students to study the relationship between religion and society in the UK.
There are 4 sections covering crime and punishment (begun at the end of year 10), peace and conflict, the environment and medical issues and rights and responsibility.
Students are required to base their studies on Christianity and Islam.
Key words are given at the beginning of each unit and students are expected to learn these for a short vocabulary test.
Students also need to be aware of the non-religious as well as religious responses to the issues covered.

This second unit completes the full course GCSE. Students who wish to retake the first unit in year 11 are able to do so.

RECOMMENDED BOOK LIST/WEBSITES

We use: 'Religion and Society' by V.W. Watton and the accompanying revision book.
We have copies of these books to use when needed in class activities.

HOMEWORK/COURSEWORK REQUIREMENTS

Students will take the second exam paper in May/June in year 11. It is a one and a half hour assessment. The paper is divided into 4 sections and students will be expected to choose one of the two questions set on each section, i.e. 4 questions in total. Each question is subdivided into 4 parts structured on an incline of difficulty.
The skills required to answer each section of the questions will be taught throughout the course and was introduced to the students during year 8.
Exam entry is not tiered.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Science A **Year: 10/11**

COURSE CONTENT

Biology
1.1 How do human bodies respond to changes inside them and to their environment?
1.2 What can we do to keep our bodies healthy?
1.3 How do we use/abuse medical and recreational drugs?
1.4 What causes infectious diseases and how can our bodies defend themselves against them?
1.5 What determines where particular species live and how many of them there are?
1.6 Why are individuals of the same species different from each other? What new methods do we have for producing plants and animals with the characteristics we prefer?
1.7 Why have some species of plants and animals died out? How do new species of plants and animals develop?
1.8 How do humans affect the environment?

Chemistry
1.1 How do rocks provide building materials?
1.2 How do rocks provide metals and how are metals used?
1.3 How do we get fuels from crude oil?
1.4 How are polymers and ethanol made from oil?
1.5 How can plant oils be used?
1.6 What are the changes in the Earth and its atmosphere?

Physics
1.1 How is heat (thermal energy) transferred and what factors affect the rate at which heat is transferred?
1.2 What is meant by the efficient use of energy?
1.3 Why are electrical devices so useful?
1.4 How should we generate the electricity we need?
1.5 What are the uses and hazards of the waves that form the electromagnetic spectrum?
1.6 What are the uses and dangers of emissions from radioactive substances?
1.7 What do we know about the origins of the Universe and how it continues to change?

RECOMMENDED BOOK LIST/WEBSITES

GCSE Science A Revision Guide – Nelson Thornes

http://www.bbc.co.uk/schools/gcsebitesize/science/aqa
http://www.bbc.co.uk/schools/gcsebitesize/audio/science/
http://pepperscience.wikispaces.com/
http://www.s-cool.co.uk/

HOMEWORK/COURSEWORK REQUIREMENTS

A learning homework will be set each week.

The coursework requirement for this course is covered by in class Investigative Skills Assignments. Students design and carry out an investigation. They produce a results table and a graph that are marked and then sit a 45 minute exam paper about their investigation and related data. These are internally assessed and moderated by the exam board.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Science Additional Applied Year: 10/11

COURSE CONTENT

Unit 1
In this unit students find out about the types of people who work with science and use scientific skills. Students will also find out that those who work with science are very aware of the safety implications of their work. Students will need to use research skills to investigate:

- How science is used.
- Safe working in science.

Unit 2
In this unit candidates will learn about some of the science used in three specific areas in which scientists work.

- Students will learn about the work of food scientists and how it contributes to a healthy diet.
- They will learn how scientists use forensic techniques to help solve crime.
- Students will also learn how science helps in the understanding of appropriate diet and fitness needed in sport and contributes to the design of sports equipment and clothing used for sport.

Unit 3
In this unit students will use a range of practical skills, and knowledge gained in Unit 2, in one vocational option: Food Science, Forensic Science or Sports Science, to carry out an investigation and report and explain their findings. When carrying out this investigation students will learn about:

- some techniques used by food scientists, forensic scientists or sports scientists, the purpose of each technique and how it works
- the use of simplified techniques in their own investigations
- the importance of working safely and accurately when collecting first-hand data
- the collection of data from databases
- interpreting results and drawing conclusions
- evaluating methods of data collection and considering the reliability of evidence

presenting evidence

RECOMMENDED BOOK LIST/WEBSITES

GCSE Additional Applied Science Revision Guide – Nelson Thornes

http://pepperscience.wikispaces.com/
http://www.learndirect.com

HOMEWORK/COURSEWORK REQUIREMENTS

A learning homework will be set each week.

The coursework requirements for this course are covered in class. Units 1 and 3 are assessed by completion of a portfolio of work that must be complete for moderation by April in Y11.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Environmental & Land Based Science Year: 10/11

COURSE CONTENT

Unit 1: Plant Cultivation
This unit focuses on plant biology through the growing of crop plants. It includes:
• soil and environmental factors affecting growth;
• nutrient requirements for producing a healthy crop;
• plant reproduction, both sexual and asexual;
• the breeding of improved varieties.

Unit 3: Management of the Natural Environment
This unit requires an understanding of the formation and structure of soil and its effect on the plants and
animals it supports. It focuses on:
• the inter-relationships and energy requirements within ecosystems;
• the effects of human activities on the environment;
• traditional agricultural practices;
• alternative methods of food production.

Unit 4: Care of Animals
This unit focuses on the scientific basis for providing food and care for non-agricultural, small animals. It
includes:
• breeding of animals;
• safe handling of animals;
• interaction of animals and people.

RECOMMENDED BOOK LIST/WEBSITES

http://www.rhs.org.uk/advice/index.asp
http://www.face-online.org.uk

HOMEWORK/COURSEWORK REQUIREMENTS

A learning homework will be set each week.

Students need to complete a portfolio by April in Y11 that comprises of:

- Practical Skills (12.4%)
- Work-Related Report (14.7%)
- Investigative Project (22.9%)

In all this accounts for 50% of the available marks for this qualification

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Triple Science – Biology Year: 10/11

COURSE CONTENT

1.1 How do human bodies respond to changes inside them and to their environment?
1.2 What can we do to keep our bodies healthy?
1.3 How do we use/abuse medical and recreational drugs?
1.4 What causes infectious diseases and how can our bodies defend themselves against them?
1.5 What determines where particular species live and how many of them there are?
1.6 Why are individuals of the same species different from each other? What new methods do we have for producing plants and animals with the characteristics we prefer?
1.7 Why have some species of plants and animals died out? How do new species of plants and animals develop?
1.8 How do humans affect the environment?
2.1 What are animals and plants built from?
2.2 How do dissolved substances get into and out of cells?
2.3 How do plants obtain the food they need to live and grow?
2.4 What happens to energy and biomass at each stage in a food chain?
2.5 What happens to the waste material produced by plants and animals?
2.6 What are enzymes and what are some of their functions?
2.7 How do our bodies keep internal conditions constant?
2.8 Which human characteristics show a simple pattern of inheritance?
3.1 How do dissolved substances get into and out of plants and animals?
3.2 How are dissolved materials transported around the body?
3.3 How does exercise affect the exchanges taking place within the body?
3.4 How do exchanges in the kidney help us to maintain the internal environment in mammals and how has biology helped us to treat kidney disease?
3.5 How are microorganisms used to make food and drink?
3.6 What other useful substances can we make using microorganisms?
3.7 How can we be sure we are using microorganisms safely?

RECOMMENDED BOOK LIST/WEBSITES

GCSE Biology Revision Guide – Nelson Thornes

http://www.bbc.co.uk/schools/gcsebitesize/science/aqa
http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa/
http://www.bbc.co.uk/schools/gcsebitesize/audio/science/
http://www.biotopics.co.uk/conten.html/
http://www.s-cool.co.uk/

HOMEWORK/COURSEWORK REQUIREMENTS

A learning homework will be set each week.

The coursework requirement for this course is covered by in class Investigative Skills Assignments. Students design and carry out an investigation. They produce a results table and a graph that are marked and then sit a 45 minute exam paper about their investigation and related data. These are internally assessed and moderated by the exam board.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Triple Science - Chemistry Year: 10/11

COURSE CONTENT

1.1 How do rocks provide building materials?
1.2 How do rocks provide metals and how are metals used?
1.3 How do we get fuels from crude oil?
1.4 How are polymers and ethanol made from oil?
1.5 How can plant oils be used?
1.6 What are the changes in the Earth and its atmosphere?

2.1 How do sub-atomic particles help us to understand the structure of substances?
2.2 How do structures influence the properties and uses of substances?
2.3 How much can we make and how much do we need to use?
2.4 How can we control the rates of chemical reactions?
2.5 Do chemical reactions always release energy?
2.6 How can we use ions in solutions?

3.1 How was the periodic table developed and how can it help us understand the reactions of elements?
3.2 What are strong and weak acids and alkalis? How can we find the amounts of acids and alkalis in solutions?
3.3 What is in the water we drink?
3.4 How much energy is involved in chemical reactions?
3.5 How do we identify and analyse substances?

RECOMMENDED BOOK LIST/WEBSITES

GCSE Chemistry Revision Guide – Nelson Thornes

http://www.bbc.co.uk/schools/gcsebitesize/science/aqa
http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa/
http://www.bbc.co.uk/schools/gcsebitesize/audio/science/
http://www.docbrown.info/page20/AQAscience.htm
http://www.s-cool.co.uk/

HOMEWORK/COURSEWORK REQUIREMENTS

A learning homework will be set each week.

The coursework requirement for this course is covered by in class Investigative Skills Assignments. Students design and carry out an investigation. They produce a results table and a graph that are marked and then sit a 45 minute exam paper about their investigation and related data. These are internally assessed and moderated by the exam board

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Triple Science - Physics Year: 10/11

COURSE CONTENT

1.1 How is heat (thermal energy) transferred and what factors affect the rate at which heat is transferred?
1.2 What is meant by the efficient use of energy?
1.3 Why are electrical devices so useful?
1.4 How should we generate the electricity we need?
1.5 What are the uses and hazards of the waves that form the electromagnetic spectrum?
1.6 What are the uses and dangers of emissions from radioactive substances?
1.7 What do we know about the origins of the Universe and how it continues to change?
2.1 How can we describe the way things move?
2.2 How do we make things speed up or slow down?
2.3 What happens to the movement energy when things speed up or slow down?
2.4 What is momentum?
2.5 What is static electricity, how can it be used and what is the connection between static electricity and electric currents?
2.6 What does the current through an electrical circuit depend on?
2.7 What is mains electricity and how can it be used safely?
2.8 Why do we need to know the power of electrical appliances?
2.9 What happens to radioactive substances when they decay?
2.10 What are nuclear fission and nuclear fusion?
3.1 How do forces have a turning effect?
3.2 What keeps bodies moving in a circle?
3.3 What provides the centripetal force for planets and satellites?
3.4 What do mirrors and lenses do to light?
3.5 What is sound? What is ultrasound and how can it be used?
3.6 How can electricity be used to make things move?
3.7 How do generators work? How do transformers work?
3.8 What is the life history of stars?

RECOMMENDED BOOK LIST/WEBSITES

GCSE Physics Revision Guide – Nelson Thornes

http://www.bbc.co.uk/schools/gcsebitesize/science/aqa
http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa/
http://www.bbc.co.uk/schools/gcsebitesize/audio/science/
http://www.darvill.clara.net/myon.htm
http://www.s-cool.co.uk/
http://www.bbc.co.uk/science/space

HOMEWORK/COURSEWORK REQUIREMENTS

A learning homework will be set each week.

The coursework requirement for this course is covered by in class Investigative Skills Assignments. Students design and carry out an investigation. They produce a results table and a graph that are marked and then sit a 45 minute exam paper about their investigation and related data. These are internally assessed and moderated by the exam board.

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Science Double Applied Year: 10/11

COURSE CONTENT

Unit 1
In this unit students find out about the types of people who work with science and use scientific skills. Students will also find out that those who work with science are very aware of the safety implications of their work. Students will need to use research skills to investigate how science is used and safe working in science.

Unit 2
In this unit students will learn about how science is used to benefit us in our everyday lives. This unit concentrates on some of the knowledge, understanding and skills that are needed by:

- medical professionals in order to maintain our health and treat illness and disease
- agricultural scientists in order to produce food efficiently and economically
- scientists involved in the large-scale production and supply of raw materials and energy
- environmental scientists who monitor pollution and the disposal of waste
- transport and communication engineers who maintain and improve our transport and communication systems
- scientists who contribute towards the production of the materials and electrical equipment found in our homes.

Unit 3
In this unit students will learn how different types of scientists work when carrying out practical tasks.
The practical tasks will illustrate some important uses of science in the workplace. Whilst completing the tasks students will be learning and using the techniques of the microbiologist to investigate living organisms, the skills of the analytical chemist to carry out chemical analysis and the skills of the materials scientist to investigate the properties of materials.

Unit 4
In this unit you will find out how science may be applied to benefit society. You will complete a range of scientific investigations to illustrate some ways that particular scientists and engineers use science for the benefit of society.

RECOMMENDED BOOK LIST/WEBSITES

GCSE Applied Science Revision Guide – Nelson Thornes

http://www.bbc.co.uk/schools/gcsebitesize/science/
http://www.bbc.co.uk/schools/gcsebitesize/audio/science/
http://www.learndirect.com
http://www.gcseinappliedscience.com

HOMEWORK/COURSEWORK REQUIREMENTS

A learning homework will be set each week.

The coursework requirements for this course are covered in class. Units 1, 3 and 4 are assessed by completion of a portfolio of work. Units 1 and 3 must be complete for moderation by April in Y10, unit 4 for April in Y11

ST LUKE'S SCIENCE & SPORTS COLLEGE

SUBJECT: Study Support **Year: 10/11**

COURSE CONTENT

This course is for students who would like some additional support from a teacher with producing coursework for one of their other subjects, or in finding out how to revise for exams and then do well in them when the time comes!

There is no qualification at the end of this course, but your teacher will help you develop skills such as Independent Learning skills, Research skills, Organising Information skills, Revision skills and Communication skills. These skills are all important when it comes to producing coursework in your other subjects.

However later in Year 10 and throughout Year 11 you will have the opportunity to bring coursework or homework from another subject along to this lesson and receive additional guidance and support from a teacher which will help you complete this work. Your teacher will also help you revise for exams at the right times in both Year 10 and Year 11.

RECOMMENDED BOOK LIST/WEBSITES

HOMEWORK/COURSEWORK REQUIREMENTS